

**TECHNICAL WORK MAY NOT BEGIN PRIOR TO CO APPROVAL**

NASA/GODDARD SPACE FLIGHT CENTER

**REQUEST FOR TASK PLAN / TASK ORDER**

<b>CONTRACTOR</b>		<b>CONTRACT NO./TASK NO.</b>		<b>JOB ORDER NUMBER</b>	<b>APPROVAL</b>
QSS Group, Inc.		NAS5- <b>99124</b>	TASK NO. <b>387</b>	AMENDMENT	902-622-33-04-89 FY 2000
TASK TITLE: (NTE 80 characters; include Project name) Satellite Data and Data Analysis Services at the GES DISC					
<b>APPROVALS:</b> (Type or print name and sign)					
ASSISTANT TECHNICAL REPRESENTATIVE (OR TASK MONITOR)			DATE	ORG CODE	MAIL CODE PHONE
George N. Serafino <i>George Serafino</i>			9/11/00	902	902 301 614-5380
BRANCH HEAD			DATE	CODE	PHONE
Steven Kempier <i>Steven Kempier</i>			9/20/00	902	301 614-5765
CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR)			DATE	CODE	PHONE
for Robert S. Lehair, Jr. <i>Deborah A. Clark</i>			9/22/00	560	301-286-6588
FLIGHT HARDWARE, CRITICAL GSE OR SOFTWARE CONTRACTING OFFICER'S QUALITY REP. <small>(If YES, NEED CODE 303 CONCURRENCE NEXT BLOCK)</small>				DESIGNATED FAM:	
[ x ] NO [ ] YES					
The contractor shall identify and explain the reason for any deviations, exceptions, or conditional assumptions taken with respect to this Task Order or to any of the technical requirements of the Task Order Statement of Work and related specifications. The contractor shall complete and submit the required Reps and Certs.				(To be completed by Contracting Officer) C.O. Requested Quote on: Date: SEP 26 2000	
Contractor will develop specification or statement of work under this task for a future procurement. [ ] NO [ ] YES					
Flight hardware will be shipped to GSFC for testing prior to final delivery. [ ] NO [ ] YES [ x ] N/A					
Government Furnished Property/Facilities: [ ] NO [ x ] YES - SEE LIST OF GFP (offsite only) / FACILITIES (onsite only)					
Onsite Performance: [ ] NO [ x ] YES If yes: [ x ] TOTAL [ ] PARTIAL If partial, indicate onsite work in SOW by asterisk (*)					
Surveillance Plan Attached: [ x ] NO [ ] YES					
Highlighted Contract Clauses: (to be completed by Contracting Officer)					
The effective date of this task order is the date of the Contracting Officer signature below.					
<b>INCENTIVE FEE STRUCTURE</b> (check one) (See Contract NAS5-99124, Attachment K, Incentive Fee Plan)					
	No. 1	No. 2	<u>X</u> No. 3	No. 4	No. 5
Cost	10%	50%	25%	25%	%
Schedule	15%	25%	25%	50%	%
Technical	75%	25%	50%	25%	%
(To be completed by Contracting Officer)					
The target cost of this task order is \$ 46,555.					
The target fee of this task order is \$ 3,026.					
The total target cost and target fee of this task order as contemplated by the Incentive Fee clause of this contract is \$ 49,581.					
The maximum fee is \$ 4,423.					
The minimum fee is \$0.					
<b>AUTHORIZED SIGNATURE:</b>					
THIS TASK ASSIGNMENT IS ISSUED ACCORDING TO THE CONTRACT CLAUSE "TASK ASSIGNMENTS AND REPORTS"					
<i>Elizabeth J. Austin</i>			10/24/00	<b>ELIZABETH J. AUSTIN</b> <b>CONTRACTING OFFICER</b>	
SIGNATURE OF CONTRACTING OFFICER			DATE	TYPED NAME OF CONTRACTING OFFICER	
<b>CONTRACTOR'S ACCEPTANCE:</b>					
AUTHORIZED SIGNATURE			DATE		

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NAS5-

99124

**387**

Applicable paragraphs from contract Statement of Work:

**STATEMENT OF WORK:** (Continue on blank paper if additional space is required)

This 1-year task consists of supporting a 3-year research proposal entitled, "High Resolution, Multi-Spectral, Automatic Satellite Rainfall Estimation over Amazonia in Real Time", in response to the NRA-98-MTPE-01. This proposal has Dr. Gilberto A. Vicente of QSS Group-MEDS as the Principal Investigator (PI) and Dr. Marcos H. Costa from the Federal University of Vicosa in Brazil as the Co-PI.

The main research purpose is the development and implementation of the Auto-Estimator to the Amazon Region in support of the Large Scale Biosphere-Atmosphere Experiment in Amazonia (LBA) -- Hydrology project number HYDR02-0000-0018. This satellite rainfall estimation technique was first developed by the PI while working for the National Oceanic Atmospheric Administration and has been used for operational use by the National Environmental Satellite, Data & Information Service (NESDIS) in support for the National Weather Service (NWS).

Parallel to the development and implementation of the Auto-Estimator to the LBA project, the PI will provide support to the Man computer Interactive Data Access System (McIDAS), to the GSFC Distributed Active Archive Center (DAAC). The support includes maintenance, improvement and display of the real time of the GOES, METEOSAT and GMS satellite data products and continuation of South America satellite rainfall estimation product display in the DAAC web site.

The PI will provide assistance in the improvement of the DAAC Quick Response System, in the presentation of conference talks, attend LBA related conference meeting, and participate at the DAAC internal meetings when requested.

The PI will be engaged in the following travel:

- 1) 3 trips to Brazil a year to attend LBA related meeting.
- 2) 1 trip to attend the EUMETSAT meeting in Turkey.
- 3) 1 trip to Albuquerque, New Mexico in January 2001 to attend the AMS Meeting.

(GES DISC: Goddard Earth Sciences Data and Information Services Center.)

**PERFORMANCE SPECIFICATIONS:****Deliverables:**

1. Provide 1-, 3-, 6- and 24-hour rainfall rate in real time over South America in both image and digital format.
2. Provide day to day care of the McIDAS real time satellite data and products.
3. Provide monthly technical report on progress and accomplishments.
4. Assist the DAAC in the data conversion problems.
5. Provide quarterly report on the LBA project to Dr. Bob Adler, NASA Code 912.
6. Coordinate the algorithm validation and application with the Co-PI.
7. Provide training to DAAC staff on operation of McIDAS system.

**Management:**

Coordinate the activities of this task with the DAAC overall work. Performance will be measured against the following metrics: (1) accomplishment of objectives; (2) clear, incremental progress; (3) responsiveness to issues; (4) efficient and appropriate staffing; and (5) (5) coordination with and good working relationship with ATR and other related contractor efforts, if applicable.

**APPLICABLE DOCUMENTS:**

NRA-98-MTPE-01, LBA - Hydrology project number HYDR02-0000-0018

**TASK END DATE:**

9/30/01

**MILESTONES/DELIVERABLES AND DATES:**

1. Transference and implementation into the DAAC system of the Auto-Estimator, currently running at the NOAA/NESDIS facilities in Camp Springs, MD: 12/30/00
2. Provide continuous support to the McIDAS system
3. Transfer to the systems administrator control over the DAAC automated procedure to import real time GOES, METEOSAT and GMS satellite data from the NOAA server: 11/30/00
4. Provide continuous delivery of real time rainfall estimation products to internet user both in image and digital GRADs format.
5. Attend LBA related conference meeting.

**PERFORMANCE STANDARDS:**

**Schedule:** On-time delivery/completion of the above deliverables/milestones  
**Technical:** ATR's acceptance of the above

**FINAL DELIVERY DESTINATION (NAME, BLDG, ROOM):**

George Serafino, building 32, room S160B